

Message Text

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FM SECSTATE WASHDC

TO ALL NATO CAPITALS

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AMEMBASSY BUDAPEST

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SUBJ: CCMS:ENERGY CONSERVATION IN BUILDINGS

1. THERE FOLLOWS A GENERAL PRELIMINARY PAPER EXPLAINING THE SCOPE OF U.S. INTERESTS VI-A-VIS INTERNATIONAL COOPERATION IN ENERGY CONSERVATION IN BUILDINGS. POSTS SHOULD ATTEMPT TO SECURE COMMENTS BY END FEBRUARY. OVERALL CCMS ENERGY CONSERVATION TELEGRAM BEING SENT SEPTTEL.

2. GENERAL

A. A COMBINATION OF FACTORS, INCLUDING RISING DEMANDS FOR ENERGY, RISING FUEL PRICES AND LIMITED AVAILABILITY PARTICULARLY OF FOSSIL FUELS HAS GENERATED CONSIDERABLE INTEREST AND CONCERN OVER MEANS OF ACHIEVING MORE EFFICIENT UTILIZATION OF ENERGY IN MANY COUNTRIES. BUILDINGS ACCOUNT FOR NEARLY ONE-THIRD OF ENERGY DEMAND IN THE U.S. AND IT HAS BEEN ESTIMATED THAT WITH VIGOROUS ATTENTION TO ENERGY CONSERVATION OPPORTUNITIES THIS LEVEL COULD BE REDUCED

30 TO 40 PERCENT WITHOUT COMPROMISING ESSENTIAL FUNCTIONS. IT IS EVIDENT THAT ENERGY CONSERVATION IN BUILDINGS IS A TOPIC OF DEEP CONCERN IN MANY NATIONS OF THE WORLD.

IN MANY COUNTRIES SCIENTISTS AND ENGINEERS ARE SIMULTANEOUSLY DIRECTING CONSIDERABLE ATTENTION AND RESOURCES TO THIS SAME PROBLEM. THIS PROGRAM PROPOSES TO COORDINATE THESE VARIOUS EFFORTS SO THAT EACH NATION MAY BENEFIT FROM THE EXPERIENCE OF THE OTHERS AND SO THAT NEEDLESS DUPLICATIONS OF EFFORT MAY BE AVOIDED.

B. THE ACTIVITIES SUGGESTED BELOW WHICH ARE BASED ON DISCUSSIONS IN THE U.S. AND ON THE EXPERIENCE GAINED BY THE U.S. CCMS TEAM THAT VISITED A NUMBER OF EUROPEAN COUNTRIES ON PROPOSED CCMS ENERGY CONSERVATION PILOT STUDY LAST JULY, CONSTITUTE A PRELIMINARY U.S. CONTRIBUTION TO THE EFFORT TO DEVELOP A SERIES OF COOPERATIVE PROJECTS IN THIS AREA.

C. THE INTENT OF THIS TRANSMITTAL IS TO SUGGEST
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POSSIBLE PROJECTS FOR THE REVIEW OF OTHER GOVERNMENTS, SO THAT COMMON INTERESTS IN THIS AREA MIGHT BE IDENTIFIED.

3. TARGETS OF INTEREST FOR TECHNICAL COOPERATION
ON ENERGY CONSERVATION IN BUILDINGS.

A. THE INTENT OF THE PROPOSED PROGRAM IS TO PROMOTE INFORMATION EXCHANGE AND EVALUATION OF EXISTING TECHNOLOGIES, OPERATIONAL PRACTICES AND INSTITUTIONAL PARAMETERS RELATING TO ENERGY CONSUMPTION IN BUILDINGS. IN ADDITION, IT SHOULD LAY THE GROUND WORK FOR COLLABORATIVE RESEARCH EFFORTS IN THE DEVELOPMENT OF ENERGY CONSERVING FEATURES FOR NEW BUILDINGS AND BUILDING SYSTEMS AND TO MINIMIZE THE

DUPLICATION OF NATIONAL R&D AND DEMONSTRATION EFFORTS. OF PARTICULAR INTEREST IS THE MEASUREMENT OF PERFORMANCE OF BUILDINGS AND BUILDING SYSTEMS, BOTH EXISTING AND FUTURE.

B. THE SPECIFIC OBJECTIVES COULD BE (1) TO DEVELOP A STATUS REPORT OF THOSE EXISTING TECHNOLOGIES THAT PROMISE TO BE MOST EFFECTIVE IN MINIMIZING BUILDING ENERGY CONSUMPTION AND (2) TO ESTABLISH A FORMAL MECHANISM FOR CONTINUING COOPERATIVE EFFORTS AND FOR CONTINUOUS UPDATING ON FUTURE DEVELOPMENTS. THE EXISTING FRAMEWORK FOR INTERNATIONAL COOPERATION IN BUILDING TECHNOLOGY (I.E., INTERNATIONAL COUNCIL FOR BUILDING RESEARCH STUDIES AND DOCUMENTATION (CIB)) WILL BE UTILIZED TO THE MAXIMUM EXTENT POSSIBLE.

C. FOUR SPECIFIC PROJECT AREAS ARE SUGGESTED AS FOLLOWS:

1) EXISTING BUILDINGS. THIS PROJECT SHOULD INITIALLY INVOLVE COORDINATING AND THEN COMPLETING A BRIEF QUESTIONNAIRE ON CURRENT ENERGY CONSERVATION ACTIVITIES. A MECHANISM FOR CONTINUED COMMUNICATION ON ENERGY CONSERVATION ACTIVITIES IN PARTICIPATING NATIONS WOULD THEN BE ESTABLISHED WITHIN CIB. THE TYPES OF INFORMATION EXCHANGED WOULD INCLUDE:

A. BUILDING PERFORMANCE BASELINE DATA. E.G., UNCLASSIFIED

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GENERAL BUILDING TYPES AND DESIGN PARAMETERS PLUS BASIC PATTERNS OF ENERGY USE AS BACKGROUND FOR EVALUATION OF FUTURE CHANGES.

B. PLANNING AND SHORT-TERM MEASURES FOR CUT-BACK OF ENERGY USE IN EMERGENCIES; MANDATORY AND/OR VOLUNTARY ACTIONS UNDERTAKEN ON NATIONAL SCALE TO REDUCE ENERGY WASTE (E.G., IN U.S. THE FEDERAL ENERGY OFFICE HAS DEVELOPED MANDATORY GUIDELINES FOR OPERATIONS OF FEDERAL OFFICE BUILDINGS, AND A NUMBER OF OTHER ACTIONS ARE UNDERWAY.)

C. RETROFIT ACTIONS/PROGRAMS FOR CONTINUOUS CONSERVATION. TRADITIONAL MEASURES AND NEW INNOVATIONS ARE AVAILABLE FOR COST-EFFECTIVE IMPLEMENTATION IN VARIOUS TYPES OF EXISTING BUILDINGS.

2. NEW BUILDINGS.

A. RESEARCH OF THEORETICAL OR LABORATORY NATURE WHICH DEALS WITH PLANNED VENTILATION, LIGHTING, THERMAL RESPONSE, HVAC SYSTEM CONTROL, AND NEW BUILDING MATERIALS OR SYSTEMS FOR BUILDING EXTERIOR ENVELOPES.

B. FULL-SCALE FIELD DEMONSTRATIONS OF MODIFIED OR NEW BUILDINGS DESIGNED FOR EVALUATION OF ENERGY CONSERVATION FEATURES. (E.G., IN U.S. THE GSA OFFICE BUILDING IN MANCHESTER, N.H., CONTAINS A NUMBER OF SPECIFIC INNOVATIONS FOR EVALUATION).

C. DEVELOPMENT OF NEW BUILDING CRITERIA PERFORMANCE REQUIREMENTS OR REGULATIONS RELATING TO ENERGY CONSERVATION. (E.G., NBS-NCSBCS DOCUMENT FOR ENERGY CONSERVATION IN BUILDING DESIGN; REVISED FHA MINIMUM PROPERTY STANDARDS; NEW AID-GSA GUIDELINES.)

3) HEAT PUMP TECHNOLOGY.

A. NEW DEVELOPMENTS IN HEAT PUMP DESIGN INCLUDING NON-RANKINE CYCLE EQUIPMENT (E.G., AMERICAN GAS ASSOCIATION PROGRAM IN HEAT ACTIVATED HEAT PUMPS).

B. INNOVATIVE HEAT PUMP SYSTEMS WHICH MIGHT INCLUDE INCORPORATION OF SOLAR ASSISTANCE OR THERMAL STORAGE SYSTEMS.

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C. OPERATING DATA AND FIELD DEMONSTRATIONS OF LATEST IN COMMERCIALY AVAILABLE EQUIPMENT AND SYSTEMS (E.G., NBS BOWMAN HOUSE).

4) TOTAL ENERGY AND COMBINED UTILITIES FOR BUILDING COMPLEXES

A. FIELD DEMONSTRATIONS OF DISTRICT HEATING, AND TOTAL ENERGY SITES IN PARTICULAR THOSE INVOLVING USE OF COAL OR URBAN SOLID WASTES AS FUEL (E.G., JERSEY CITY TOTAL ENERGY PLANT, MINNEAPOLIS HENNAPEL COUNTY INTEGRATED UTILITY SYSTEM PROJECT).

B. PILOT OF FIELD DEMONSTRATIONS OF COMBINED POWER, HEATING AND COOLING AND WASTES (LIQUID OR SOLID) TREATMENT SYSTEMS FOR BUILDING COMPLEXES OR NEW TOWNS (E.G., HUD MODULAR INTEGRATED UTILITY SYSTEMS PROGRAM).

5) ACTION: REQUEST ACTION ADDRESSEES BRING THIS PAPER TO ATTENTION OF APPROPRIATE OFFICIALS HOST GOVERNMENTS AND IN PARTICULAR FOLLOWING INDIVIDUALS:

J.B. DICK BRE-DOE UK

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S.E. LUNDBY NBI NORWAY

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MR. MICAEL EDF, FRANCE

G. BURNAY CEDRIC, BELGIUM

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MISS J.J. RAWI CIB INTERNATIONAL SECRETARIAT, ROTTERDAM
KISSINGER

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